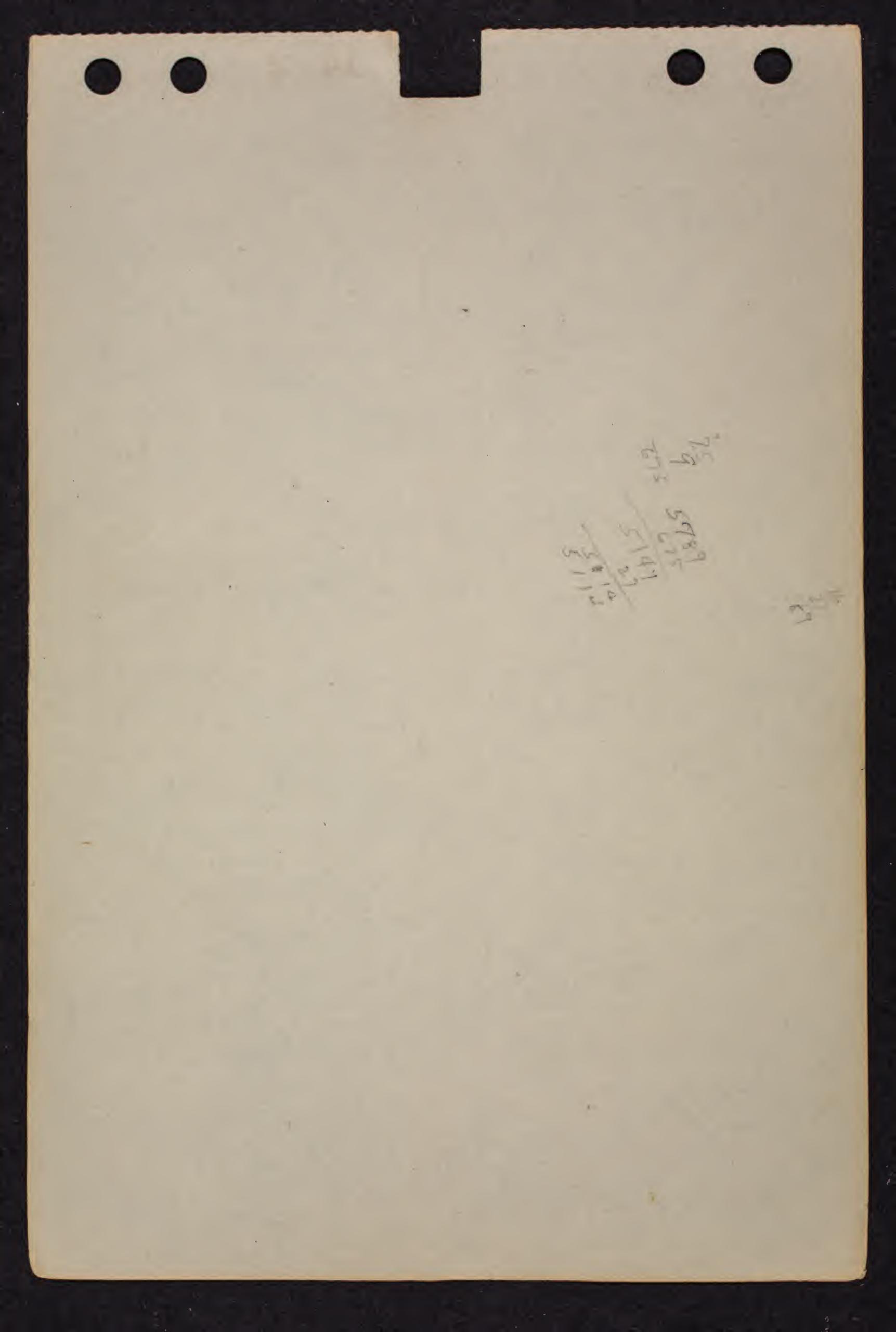
Field trip april 23-27, Oct. 25; 0482 april 23 Visit Deie Hill, Went to Windmill section. Commended we hud lands by blocky They went Home artination locality, Collected, Then went to shale just under las farment of two links Wholy, Want up to then leading which formathe engl of The help Land a land sligged block on the ray t face of Mile Sunderplace Commenter Just oblive The Harry ladge and possibly present in it. of halls to account account attended bed. In Hear floor here, and in Hero weat of the , sow there with siliceful Coscino place, Sugar to Muj so-called Contralations will may be not in place. fate affermen unetral pares articulaid locally, This work was Loude about 1/2 hunce, 18 E of stance & The Lower 200's Wellering to worthy massively brokeniet line stone Boriotifes are common and expend as at least 150! Ausaline, one commenda about 200' of Compl. above in W.C. Hers le le leured to see at This place but flat, beel, with Sprindie selecte occur of av - 16. Her ledge which is defficiely to inclinable a lige.

0483 april 24 north of Hear Ranch the Scorelinalla bed are found tak aguist de Grante which King cally East /fen ferien Found Parentellites love about middle Han Randa Horst metion. Flins section unusually long and may be mostly ligh wolfmulp, some lugher than hitherto believed. Wolf Comp Hills Property post under 3 del la obrace Creek ellow Beens to be just above continuation of 12 but due a not recen to be the had Ebove 12. clitics The 2 and la about the la former of creek led at elbows - clair probably about to 12? Better see my own humbers. Hu, Ged is 80 pades Mayortream) from ellow of Orcele, where Creake The Childrette for pentage and Corrender. Dysprakin bi collecting socks Leffence functions from Here

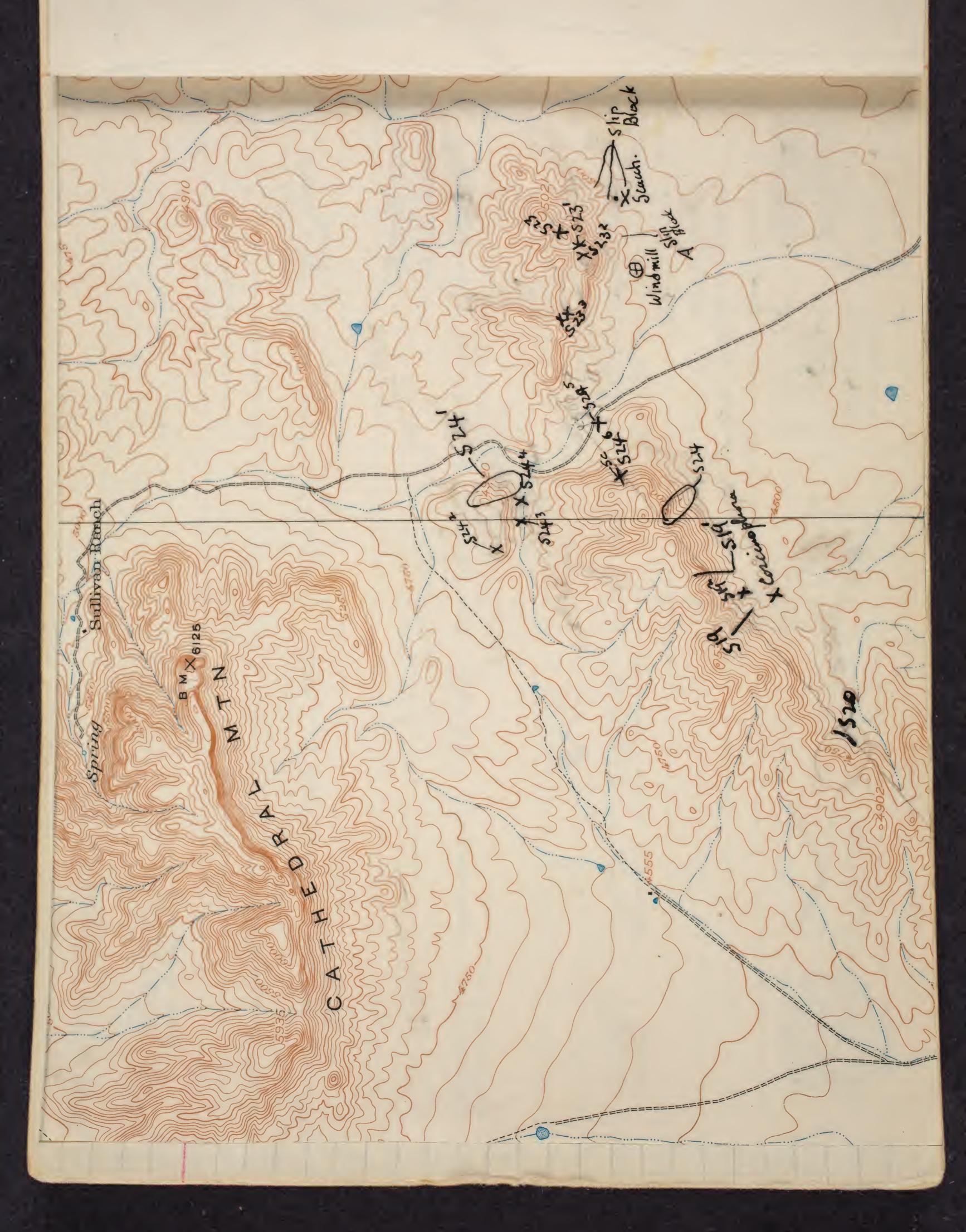
0484 October 25 Oct 25-samuel partelof gellers lune for syrremeded for brokerand grang bed Danies Murely & it in placed and Thought The franching had a Wolfamp look. Oct 25'- proton east side of de et gellen beds undermerth While ledge by April of This is upper the Cherry Sinclandrates The Mayor. Oct. 253 - Juanline semple taken west nove of life about Wolfcamp while above artinglace locality. Specimen from derse limestone lying on top of The salare. Cet The Doller deste yellow platers bale appears at The

0442 Heave Runda 2 Lamand Mth. 4,7,9,17 Hear Ranch Herst 15 neal Ranch Ed Split Dank 16 Decie Hella 20, 23, 29, 30 Comment of the second Naide Deir Hilla 26,28 Windmill hill Hera - Word #4 Willis Routh Santa ana

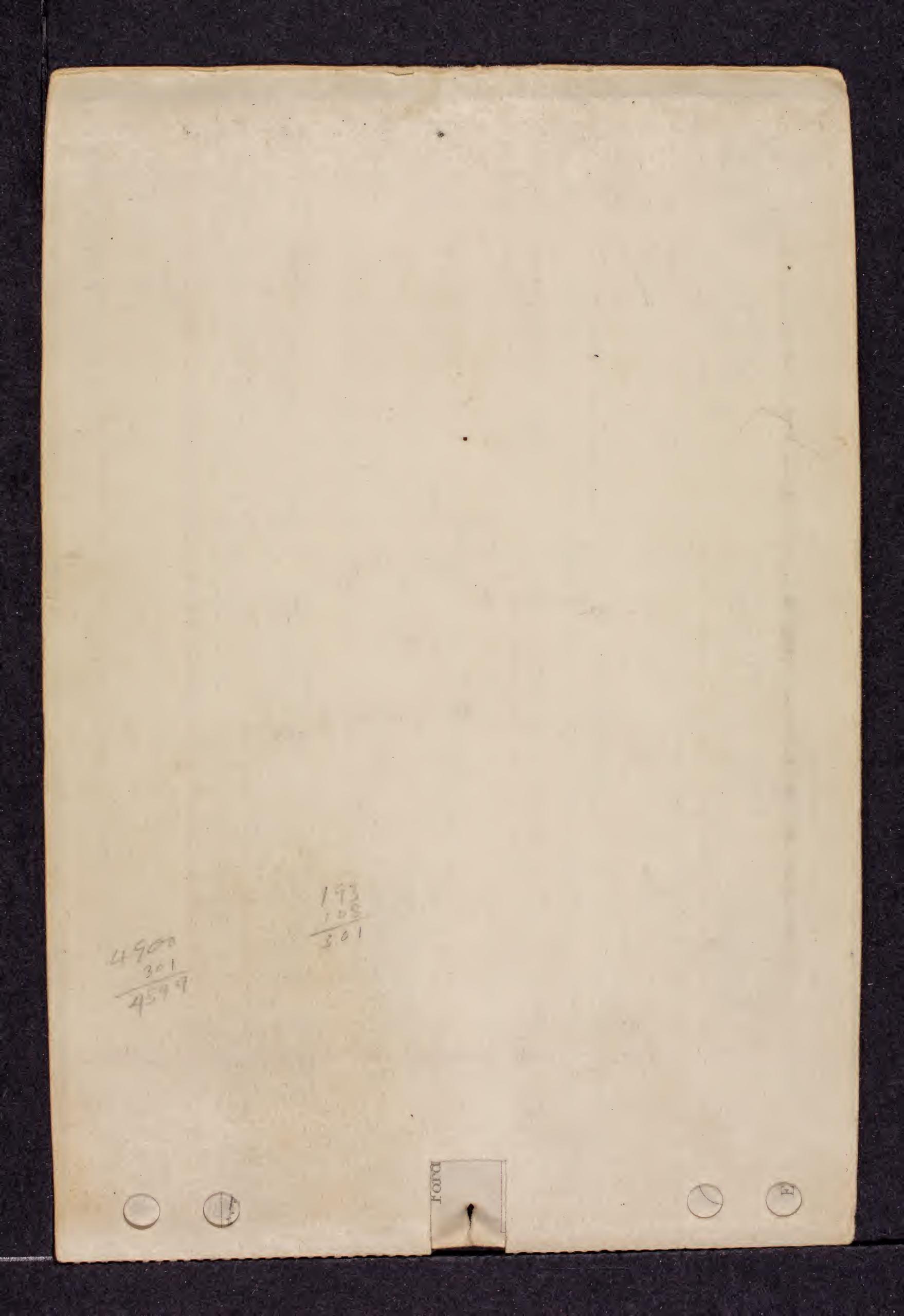


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CIII. show the shape of the the map indicate a gentle slope, lines that are close together indicate a steep slope, their altitude. Successive contour lines that are far apart on and lines that run together indicate a hills, mountains, and valleys, as well as

C5751)\(\(\)

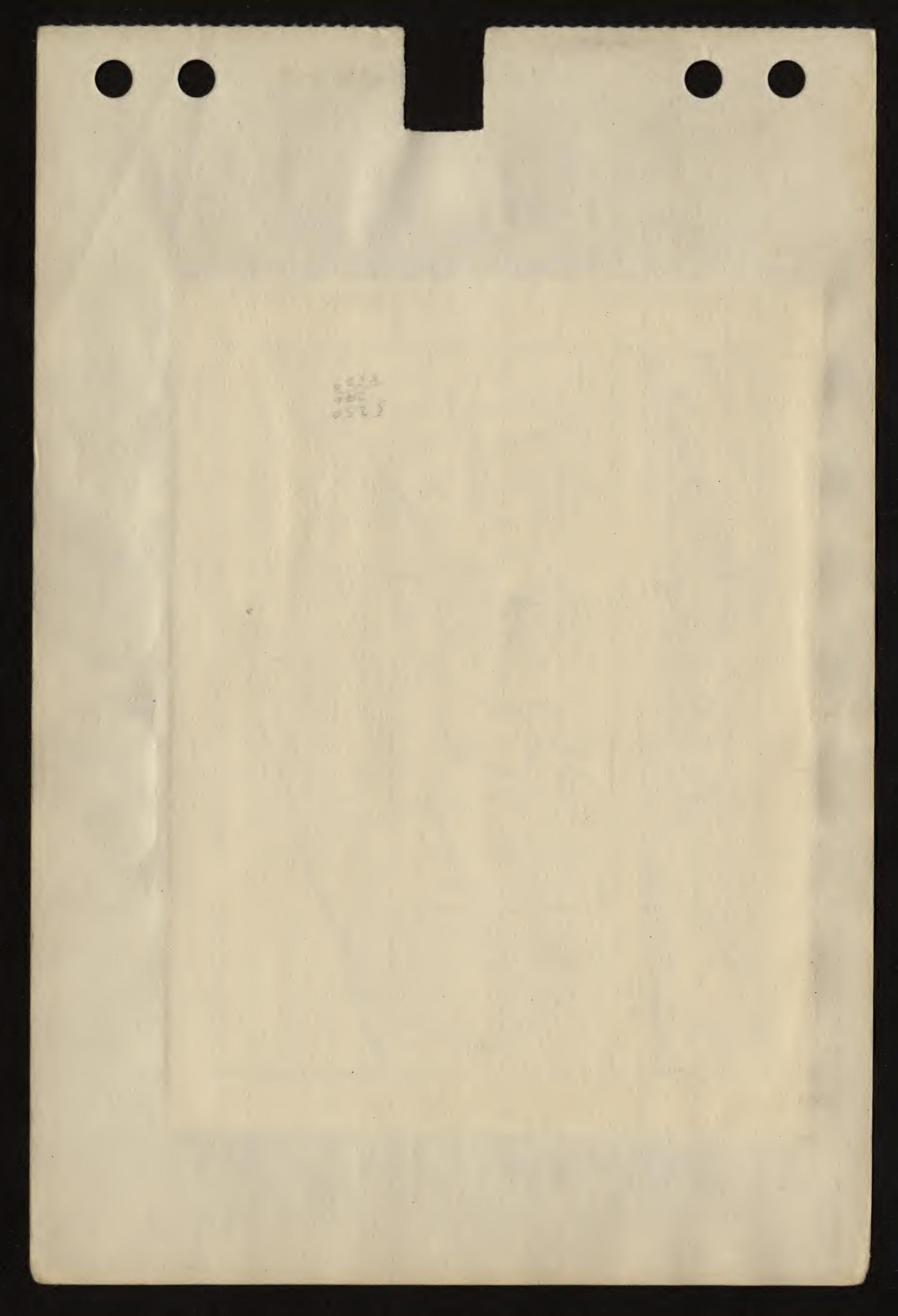
and grade is shown in the figure below. The manner in which contour lines express altitude, form,

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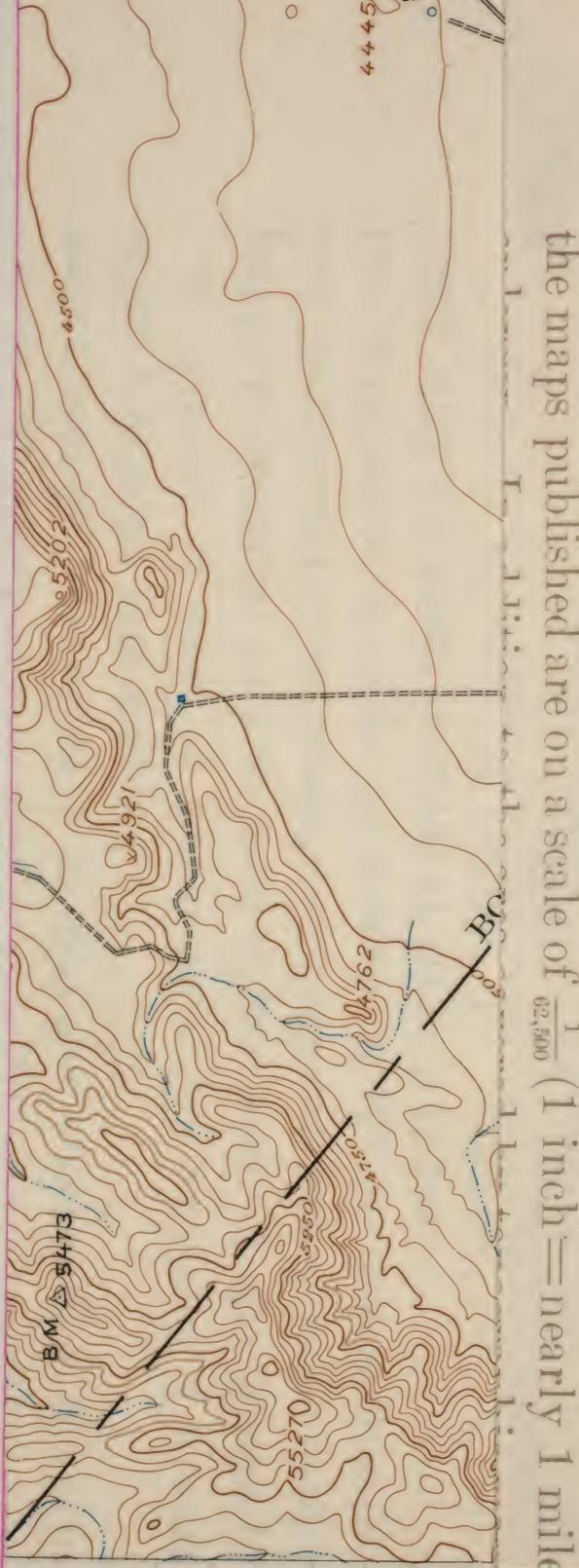
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appararus, acrim binansententino are am drainage and culture. the regular topographic maps, which show relief as well

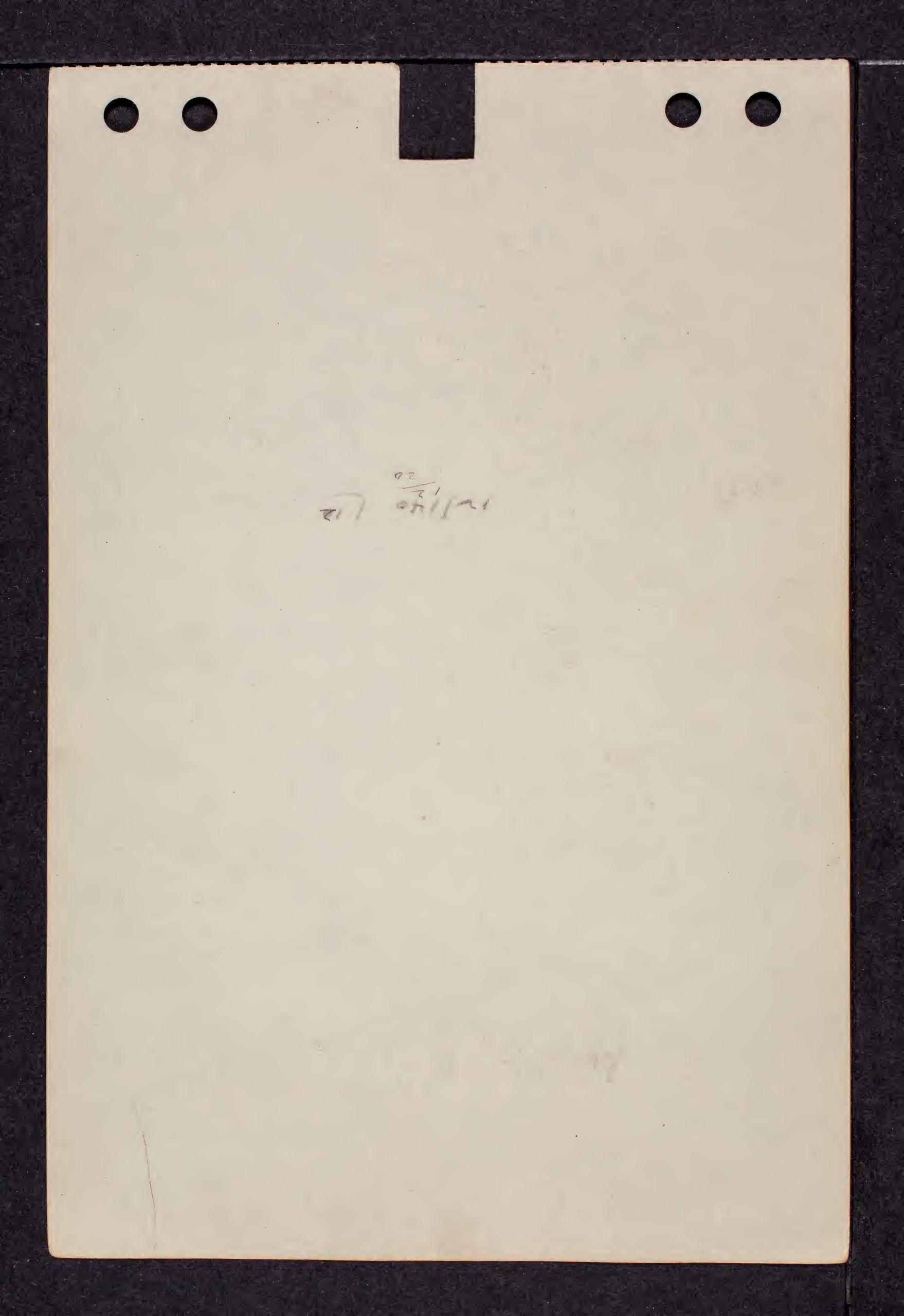
the maps published are on a scale of 1 inch = nearly 1 mile scale of _____ (1 inch = nearly 4 miles). For some areas of par ticular economic importance, covering about 4,300 square miles remainder of the area surveyed the maps published are on on a scale of 500,000 (1 inch = nearly 8 miles). For most of th About 15 percent of 1898, and nearly 44 A topographic survey of Alaska has been in progress sinc percent of its area has now been mapped the Territory has been covered by mar



0450 Sept, 10 See Fire on US 67, 194 mules sast of gemetein with de eartamed 1176 and 13/4 miles least of Center of Souten lina. A. - Shale soft frank mostly blue gray weathering plants in placed. Large Cheneros common, large Adibyia, Scabler & Thin & had & should. 6. Him lune three separated by shale Several layers of lunes time the leveling about 6" Is" Thick. The collow-the irregular C. Hard brown lime for I'think D- Mealy ling shale & Plain Is. with cruid sterms. Upper Is bed about 3"- 4" E bleale 31 weathing red.

0451 East of Hear Parch 280 above top of Knot which hill y of 10 mass of dolomite this is at about Dipon hill N 70°W 10°N Stope ale Knob-5250 is mostly ledge tossels the fear mostly fusulones mostly meanly kestroyed 52201 5250 top of hill 5260 5418 Want Nuphull with knob at 5250 and sow west facing of Has a Mostly granular grant weathering lime, tohe offen with algae resembling from him. Little or no doloninte seen / Throughout bill from 47,61' to topat 5 250: Welt east of bonder up lill engling at 5726. Went to westeld of level ending at 5677. The west faces type of ruck appears for a short distance up hill word of the not but discussed at about 3 300', above this The rock is mostly dolonite fairly breamy bulded but with becapeoul fly bed. found only one undolonistryd fundine bed.

0452 5119 - visited book 3/4 mile Nulof Hero Kamelo, Lower part of heavy bedded dolomite. Hell capped with under Her yellow williams alula with thin lunestone. All nocks much altand. Four fourth. Law Stewer butter and anidanthus. This appears to be Lamard. Wolfcomp. Welde soys 511 may be



0453 September 12. Fernand Mitnes Benteletes seen about /2 way up im lovae block. 110' above songlomerate of WC a 2' hed of saiddo fone with clark pebbles. This is identical to the rock constaining ammon on lo on Dugout noundain Flee bed seems to be block ?. 27 mitarval between egly light gray lo consiste of sent fende beggehindlea of algare dicherus, very unequelan, shall and shall be abounding in loige furnifines 27'-50' gramular le like Here West fecce but with big brokenn with large Leptorlus at about 40' 50'-92'- granular lune, Fore, defrital gruen bratfiner Thou below. Big mechelle 92-125 Limber grown lan lines four light gray to white when but of the Brise. 125-152' mostly covered probably 152-202 - Mostly massive granular lines force of Hesse West facial at 202. The dolonist of the great cliff comes. This 50' zone is a dine south, contains

0454 At base of thick dolonite is about to alternation of all dolonite, suggesting if The vig mos is a sand bele The Aby of WC and may be WE. South siele West Knob Loonard min Knob nests on massive Leonard have a limestone rather thank a dolowite A-massive lines time with scattered petitle. Springer, Supcorder tryonon Lating SE from This part of Win. The dolonide we came thru while is so think This west and seems to pinch out. Of same time The Kick detrital under the Knob Theepens west and Thingenston The greatly Thickened delonite, The great thickeness of to under second knot thing out on The land with beach mark 5860. 37' (C Possibly the two are freien, 43' 14 Dolinit Mossive The charasteristic Leonard shale. Muder the second Knob There must be 75-100 of himestone, but under the eastern hand only a few feet.

0455 C - 37' massive detrital la. with pebbles. Scattered fromis. D. 40 of platy shall interbedded with dark gray granbler Clines tone in bealo ranging often a few inches to one fort The 5860 knob is about 60' of limestone above the dolomite which includes the Syndioplion beds. The dolorente seems to me to de a secondary develop 5/2-comes from saddle between purto of Leonard With. 5/2'- Beel D of section on west bush of terms of meta somitite. When going down the section o barring The till of found a live speciment of Omstalotrochus in The Thick dolomete. This may have some bearing on the section on the small land at the morthead end of Leonard myn.

0456 September 13. Small Knob on Meride Leonard mita. of WA - Line time call of Wolfenny. B. - Brokermall. Strongly seambling Wolframp. Contains & carellinella? 715V Parentelles? Fusulines coll. 5 13 = 715 v 85 below top of Knob? Patcher of dolomike 30' D C. Flat bedded la possibly 25-40 with Secretine Pla and other forish, suggestine of HR. D- Cliff-making ledge of light grey production of detritates. Evith in flat 5/3'- bose of ledge 5/3'- 15' above base 5/3'- Viry top of ledge at 104p at branco 7098 of half 7092 Stope Nest 5 of Knot is of Wolfcandro Ange week, messelve with anchothe partelles. Also portelus of dolonide Coll 5/34 = 7095 Just pouth of know we go up a logge with doloned brook only. Whole store underlain, by WC littleology, also suggests The Hear ledge Crimoid stepins 1"across

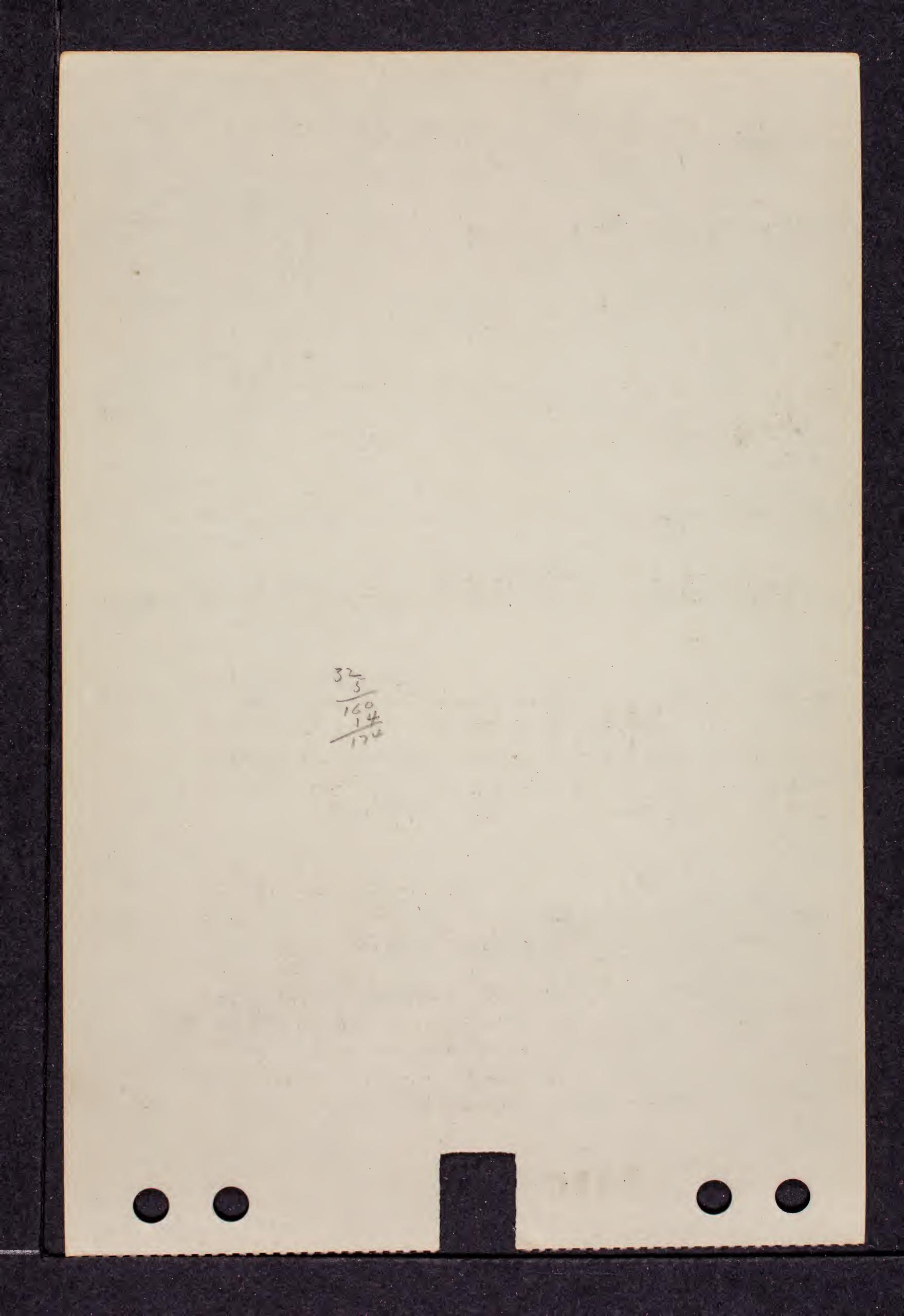
0457 5135 just south of igner body my saddle sint Sof twin Kusto, Congline of which of take to be the topof the cost of The WC appears just 5 of igneous body in saddle. To South the Igl isoverlain 709t by fospilitions We in plates wholy and shedding love franches. Initally in is about 5200 the lines town. Elevation The section seen today helps to solve The purple Not Hers Rendl, Nouvert that the beds just Not The Hear house belong to uppermient We and the HR bed one levent Leonal. The bedoat The small knot on NE and of Leonard occurring between the cliff and the Wolfcomp appear to be HR and They also have strong suggestion of the beds on The back platoffle of The Here Ranch Herst, They also suggest possible assigningly to The Held lette on the Deien place. They beds at to of Leonard with the Springle beds with HR forils may actually be in the dolumete of The SE force, The Omphalat rochus seen there in 5/2 being aufortung evidence. 2 blocks from 5/3° = 709 u

0458 Reptember 14 Stempend, noth 4 voers ferrand net. I - bock slope from Hero Kanel 1425 Rough face from 1/2 mile 5 of 4- Enell knot on NE side Leonard at The south angle of the small Knob the HR Thicks radically from 90', on Navel of Rull to only 110 by 15' at Sand. Fred N And of Sanob we go 5W on slope from two knots, WC lisexpered on Newdof alope at know. a few reds withe rownded massive We is covered by This slate beds of HR with Scaechinella Gred Huga W Omplielot welves, This is only a shin on The WE. Then come heavy-Bedded plaky limes time like that all the creat of the knot. It looks as though HR Thus out southward & Swoh The mere wc. Just NIW of Gully breading mito twin knows and about middly of alope (EWline) between from knows rock lis tel dolowers. He dol changes from pary To massive to the south on Nalope of gully @ the dol, has lange Spiriturial atems as ghosts and suggests The upper Wanderive bed, conglomeratie Jule egt here some what sandy. Probably near top

0459 Ig. daneous wek on slope at 5200 Aust ander 1st know 50 from Knows Jonnap. Down hill is by Il plater ale float. To colin place above te, has margine to motoble 40 and land formed of dollarite The first of the main dol in Dilse entrends to a point under Attre Lower Lechard form a loop on The Muside of Twin land, on flack of west rede. 709V 514-530° E of Knot A, in sandy cgl. at 5222' 709w 514'- Under Knob at about 5280' patel with abundant fusulues. Contains also recky pay- chas of Strontorhynolius, muchalla, Reenteletes They Knot which is dolonite undoubtle Helvings in We ag ift overlies This level. The We on This Knot makes a loop which endo at about the dipe below which we have upper cal of the WC. fort was S14 we come anto Eglon slope but next small rame of fourte, eadble between Knobs A+ B sdemb to be We Lameller algal la recer in This panall ravine of west reide Knot A

0460 5142 - West aide of first gully under dry knot Bil Big mond between Alt Ball Wolfeeling except for Cot seen bekinsen 514 #5142 mean Elopeo between 3 mull gulles just on Waide of Knob Base all massive dolomite frott on Weide big gully just west of 5142 we comediated maser en lines tone again. Slope just Not sociale between knob 13 ft 3860 is mostly dolomite but with partoles of linestone. Here we found a lorse Defordia defunta. 5143 first Sof Lings loc 207 on long sloge between namine the major west branch on the left of The flower type of type of 5144 amasive ledge of limes tone containing numerous splonger and Leocalinfa. The ambridges on ongests The Lamed. These may not be in please A-5/45- In westermost gully, about longe framendes et think this is low in post congl. We. A 5200-5227 Same at above - but 5200-5232 covered 5232, - 5243 - missive granda la Light grong weathering

0461 5243-5248 covered 5146 55248-5273- Mossive grandan le with Stuble patches, Still lather like W.C. 5273-5289 covered exapt for about 2 of anemera do. 5289-5321 - mostly covered but with one silicious makes. 5321-5352- massive hage abounding Heas in large Segechmelle & could bryozonis Ledge. 514 5 332-5359 - mostly covered but birthem at top containing bibeliopoels but & could alot adentify them. 5359-5419 - mosky covered but conforming thick plasses of grammelands like The Thim bedo of MR. 5419-5485 - mostly covered, but 5'01 yellow Leonard Chale at love. Meany leages senthment 5485-5350- Heavy magaine ledge of grammlan light from times time ! (allower This Skinds Comes The Thickness measured on the Wast Know of Leonard Milnon 512. charles beary beds here of can smooth Players with Edrivsteges, There look very much The The Limbeller is the wolferna 15



0462 about 20 about massive Seachinella bed one thin le about 1/21 Hich with Leptoling, Sear limitle Composita + offer like HR. The AR beds must go upat least to the in Pie H.R. Beeld, One large Defordia Type formel losse. Collecting in Knowbon NE well Genard Mtn. Hamellevelled to by of cliff from top of conglomerate In valley. The Will is affort 204 high the Conglowerates are therefore extrabout 4796, S147= Wolfermp 120' below top of small Knot NE and Levra d not not 513 Small Knob at NE of Leonard mital S148 = 1 fort above massive We in base of 14R, here about 20-40 Mick Thin bladed? Amall Knob on NE and 7142 Leonard 17th. 5/49-Beachmella reef = Kings loc 207. 514 10 10-15 below top of massivelell monther. 514" - 5/2 below topol massive we legge markend knob at NE & Leonard Mixn.

0463 On leaving the alogne with large Scacchinella we angled off the trice to the NE landing for the paint where The gullies united of Town in the bull and along The major gulle we encountered dolomite prossive, with lemind atemi which suggested to me That here The We We Shas been dolomitized. This is evidently The N pointing of one of King's Heso (East forces)/ al The dolimbe in Ferrand nith should not be regarded as a special facies because it is potchy irreguler in distribution, In one place we collected WC fromline, an good la a few feet from the point The dolumete shows various degrees of mineralization from just fank do tomite to strong dolomete, com places recognistable former appea in the doloning that have not been destroyed.

0464 -(15) September 15 Up buck alogee of Hero Ranch Horst. Big Knob marked C seems to be nebsty is in the lower part but the Novestis dolomite, the limestone appears to my into dolonite. The knall internal brusob marked B is mostly doloniste, lageically on the N foreing select Kill is mostly very meserve 714h 515-fusilines from bed of dark linestone on topo of hill 1/2 mile NE of hill 5816. after this stop went to low lielle glock. Junes former alfered and frazils pour. also visited nose of bull one mule 5 of Willes Ranch - Word# 1 at This place consists of massive limited pour en silientil fraise. Two blockers Haben die en 1956. collecting could find no good blocks.

0465 September 16 my thong I expo + mon won Hall Sent pictures of fireals. 516 algue surrounding farmers S16's S162 fusuline samples on long dip slope of Hess. 5163 producted from dip slope spentall morning in a vaineffort to find Knigs fb/ south of old Word Ramah in brainty of The dep slope of the Hear is of vanion preserved in the line from but close afternoon day 516 = 7141 516 = 7141k

0466 (17) September 17 714 m S17 - Jusulines high in Word #4 Hero Rench foreman is Enrique Walland own acres of word 4 much of it dolowityed, much of it unforabliferon and Amelios If with thick masses of chat du places the rock is made up of fusilise. Collected on a hillinde don't /2 mile = S173 west of road 517'- Francise pieces from mean 5/75. September 18 ocacelmella locatedon side of Gill (518 at, 5200), This is N60°E of knob B + N75° E and on hnob C let N35 E. Here we are 50' above the stream about 7501 we comes the Searthmella bed at 5300° where we sem it on 5146 Ut 5335 on slope, along gully a manaire & contains humany aux-like Leptodus, suggestive of those inthe like Those in The Hero ledge a levet all there are numerous Defendice sporges. This occurrence strongly shopped The these ledge of The Delle Hills

0467 0 0 very conglowder of the in being Leochmelle bed on slope of 5182 at 542/ first overthe fa 5529 partle of on 5535 Severhuella seen un place 50-75 yda. From Scarelinella to top of hill in saddle 151 makes saklelle 7142-5/8 Thus about 5549! Dipmean ad by sight on west know of Leonard Mith is 7. On The east knob it is 140, both to morth 7145 = 5184 - finalines on nose of book B= 5756 - Specimens taken de more at about 5720". The Searchmella bed goes anto the dolomite at about the middle. a foreques / dolonite about 3000 40' Thick extended with The his about 100 yards 75 above the Seach hindle at the Secretariellas collected at 5144 cowell as The opports are out of from 5/84 probably came bound Drietly above Searchmella at S146 about 50' ig another Sank of Seachinella & This brokengel Thurs affering through andersterval of at least 50°. His upper level

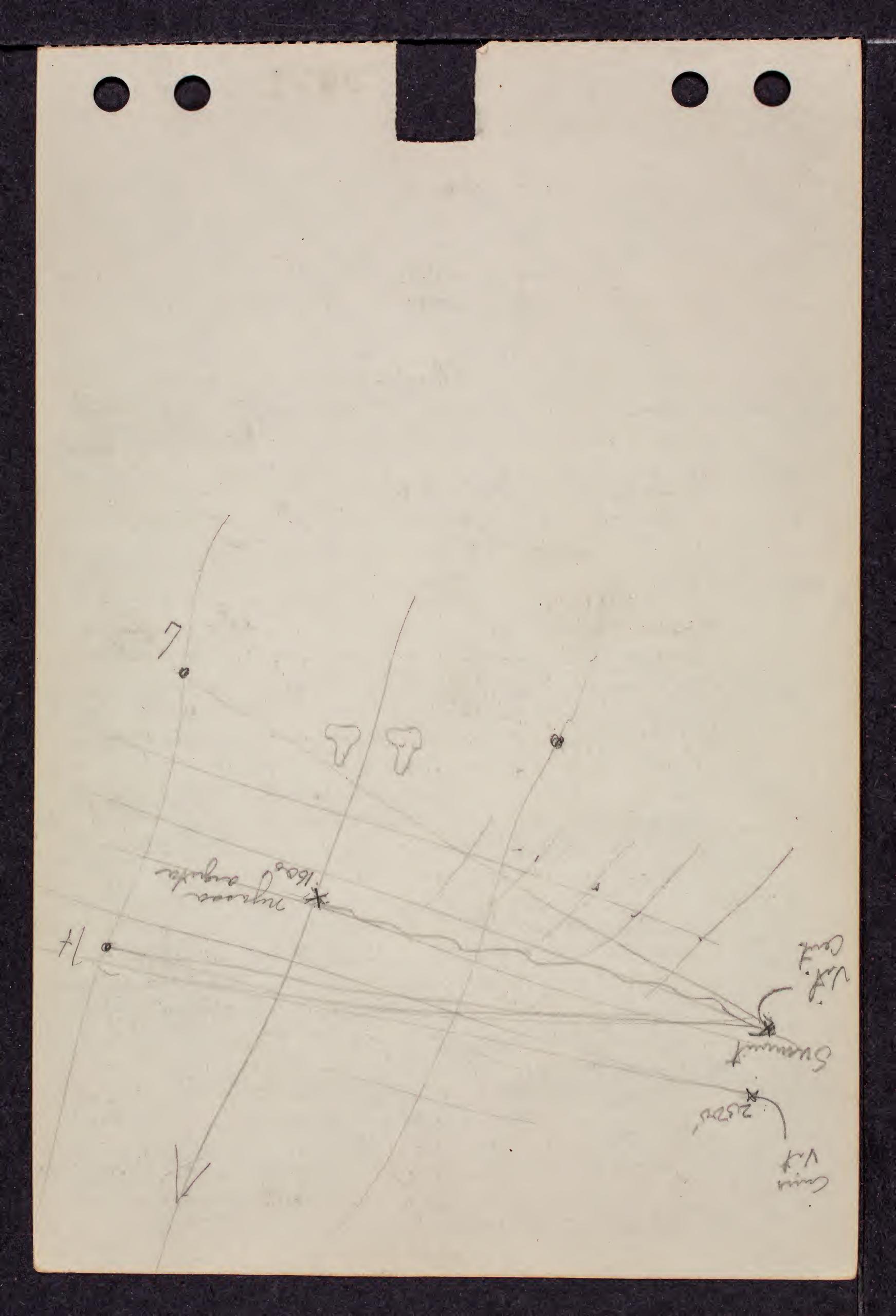
0468 abounds in crivical stems and Thurs resembles 5/82 where we collected Ours/8" is Thus near the top of The Gearchinella interval. aborie this inferred is bedelled dock grander by in beds 6" to a foot Thick. 185 - up beautimelle at 5350, just at point on hill where et levels off to Most. Baty well for about 50' above This ledge will e light granular Her appears. This may be the point where Kling's family runs through. Seacelinella bed appears at 186 which is O. I mile to from end of small know or NE side Leonard Outer. the beacehinella sed are mostly in brokemaf masses and They have the orange brown splotched so character ister of the Wolfcomp. Heleoppingia occurs in the WE mbooks buting not common and Grandia is absent. there seems to be only a meal Throw to the fault because the Quacehouble bed in the when drive town of the gulley a Combre trues of to /2 up from Arouth of gulley. on the slope above leach huch at

1 mm = 10

0469 0 0 September 19 Sightfrom Mill 533°E from Decie House the Anthon which we have Coacing proper in the Decce Hello is underlan by their sands tone and angular papels home of breeze. There is as veneer of nutble on This lender He productions were almost certainly not in plane. The Concinopliere could be in place Under The brown breceia beds come brokerman lines forme and lo egl probably 25-30 Thick. Then come to The 72 trown bleccia probably 200' Thirds. Section mean hill 5300' en Dace hills, Tower of them taken at a thingslate, as, I in bedo up to I' 3114 at 54 comes a thick (2) lunes to me with sandy chart loyer of 1" on top. Below This The rock has been partible convered but in mostly The dark platy is. Some purlaist state appears just below The Milke ledge. The Mile Cellge absends in Harge freachines Et 70' Him (6") la bed contain Spyridiophora at 80' clay shale in soil overlying a Thin sz. Ched 3"+ 3" lo. 80-92 clay shole 92-99' - harden yellowish shale capped by 3" bo. bed. 99'-155' mostly shale water lunes for leeds, cyl. leeds (h) up to a foot Much Dt 1531 comes a Thirthe layer & smooth lune time with bellerophones Die layer (nutter lens) is 6 thick

0470 0 153-169' Shale v lo. at 169 noch becomes mussive the degers being 2-31 thick Herris about beginning of la. #1. 169'-185'- Aluele mossine beekled las separated by a few webs of shall. at 185' comeda brohem about 20' Thick Collected at base of bioherm. 205-275' mostly thickbedded so, sandy lines tone with This Prick dust beds in Lower part 275-302'- massive evnglomerate with lines fore and other publics. Did not see any productiel blocks but saw producted by like the little Sawa boulder 3'x5' in Fr #1 egl. Biolem in Lement # 1 about 1/2 mile month ast of 5 19. SIGN short section weathered se, portably Under The Hess belge 60' of slope show blue and grow shalls of the Wa with accasional interbedded sandy to Flue eliale contains much somall pebble my farefly The Heis covers 70' of slope to Contains longe Heliophongia with

0471 (22) 0-75, above Hen - Heavy bedded andy limes trong with with will wish caps. Gl. beds. All separated by this layers of stale small closely packed but the later ley into biohermal los 75 -91' at 11' comes a so bed, luny in lower I's but pure sound of one lin upper 4th above this point the olope is greatly covered but the float prices ore andler generally. Probably considerable W 91'-142' mostly shale, at top a 1' lo. 142-192- base of brobernal more about 15' Thick Rock Obelow mostly shale. Girlemof mesa des large envoid stems. Decret real by oros. 197-212-broken 212-218- man mass of L. # 1 218-25%- To have of a large broken Saw frige enricht stelle, af about 219. The massive rock extends about 60' higher Than The ware of This Gighten The upper beds at top of Leonard #1 look like a sand Hone about so thick, In the upper bioher are was a of geometridal by onoa. meckella grandes Aline criminal stelnes ocem as petbles jul jubble under t around The biohern The upper sounding heales lapouts the bedien which / Thickens considerably One lof The strehming features of Leonard ! is the bound, and enormous conflorerage It is a repetition of the Hers Liller



0472 Sego Henden 20 comed by the with lower beds englementic 193'+ 108' = Slope measurement of Learned # 1. Her The top is 33, 4 lo cyl. Zubtwofing from the knob of the hill The Hebr ledged to p is at about 4600! Sour no Dearchinella on way rep. Pocaclad Laptodid is in upper part of Hero ledge at 520, Italed has fine line of Sthestordryne line with it ist " clt is likely or possible That 707 he was derived from the Hes-leage. Execution of Coscedoplina obtained And Throne may be the ledge. Check. before these tadge of Lt. The Leonard in the tone half is in heavy bedded somely to appear half our often stale. The collecting about The Here ledge was not good. He silicities specimen which destal and wallesterfyears ago mostly come from 520 ragher Man King's luc 35 while of 1/2 mule 2dat This too is different from my big block which should be given a special number. This beg block is definitely Hera bedge and mot float from Thomas (#147 Can same in frue of the Sterrie and enceled out

0473 0 0 (24) eln effermen collected for Jewis Crentity, at bance of we the en ettel of men e che broken eel lungy well des plans of One group of exposure expende as a lend, Hengier but The other is under the well of the The hill with long stongue is of. faulted in companion to Reother. articline occurs at The place. torrest are defrient to obtain and com binky well notted. These are few in menter

0474 0 0 25) Det to Midland night of 23 rd White 522' - Small Knob of lo. about 50' on Jan march east side of Know Guardines & \$2 Selving Corinophora, Festine sangle from SE bide Hill + about 714 V 10 below Hopp. nevsjerifle, engenels 5222 - knob of brohemal & Veni bedded b. Some foods on Thin layers, Foods broken into a hush. Mondy by oron Schipping Endelete Providethogenia I Portsible 5223 - mossive lo, brobenne of many S224 lugh knob, eenglomenteels. Saw lodge Concinophola. Enteletes, Leonard #2 Institella, autosteges trigonalis, 5225- Searchinella in massive denestra Jury longe ones seen in place. Many maile 5220 - bluff with platy yellow shale capped by a 15" bld of shell bruina. with selidified shell black. Here ernes 10" unsorted cal with huge crimend skeme, about this is 481 of granday linestone in flat had with order of seas. Mupulomalla Dysterme, Degicle ?

1951 0475 522 The Scarelinella might have been a very beilg Ennoghed nearthoid at shoe of block A just East Windwill and just alove beachinelle beds along The bose of the hill our be found some 10'of yallow- Jeon (shale in the slope, The andelin The bed with whetella. The top of the trob at about 4600' abounds it springer & corale (cup). Dumple, appears il. The small saddle of about 46001. King maps we under small lungle just Eof thill 5021 on I now More property, check notes for description of this deesting, Knob A or hill 5021 is mostly in granden moderately heavily-Bedild Some store with occasional egl. (6) layer especially one 10' ± above the waddle and some realtered perbles. Frasils are very searce. Munor benount of brokerwal maderial present but salt few forsils in it. Kanob B- On and ride lenob about 10' below top comes amonth gray well with a four forth. Scarchinella llocked with Junibelia. ner me te t longe Wellerella Saddly beforen A+ C. The raddle in at 4900' and The head of bear limella refymases some part of The endface of the salle. The The Here Ecacelinella bed for is at 4900' seved The base is at about 4840'. I satimate The cliff at 40 above the buse and some 10'to The conglinunder it. The Searchinella beds deem also

0476 Windrill Hell 2) Searchinella hed about 60' Thick above The Scarch bed comes on The Fraile of The roddle 20 of slope with yellow shale, On The Wof the sallle Charache 24' feet of aloge in the shale plus about 20 leonard which may be shale He Here ledge here abounds in gooiges 523' Scenerhindle from top 5' of rock in saddle = 7142 West Knob C - 24'of shall are visible on Exlope of Knob C fit between have & bone of cliff is covered which yould add about 20 more. Shale lear Thin sabble had hipe in-love Looned. One top of Knot co ameanie 4,00 1521 to topby know This makes topp of 150 hill about 5050 which is lington Man Anop measure, see notes in p. 28 5050 5232 - Sterman - Hopof lenot C 715+= and Generalla and Seaschinell at very top. 7171 5,233 - Spange beds with pelobles the top of slipped believels at A. This hed para the dumbe paddle between the Knob-cand the realthree but Overlying This is about 75' -100' of slope with yellow shale, near Hoge of which as omosth dank Thick beddled le like That on fearand nich. The lo 3-4 hore is all dolemite about 80' Thick, lover half confirmment is and with a so at top. The appealable to sure heavy bedded aline for du The low half forth, and fairly common

0477 (28) notes om windmill hill. elthink The majors mains fe ao regardo The elevation of The saddle between forobs B+ C. The alfral dietarce between The Two bills in The saddle is only 100 to 150' at the most but The map shows about 1/8 mile. al Think The lenotes should be shown as two contours very close forgether to inducate the extremely marrows saddle. Fler elevation of the saddle would be 152' below the hill top. I his hidl is just under 5000 feet ligh and is almost as high as the lill A which is 5021. a good gliers at The height would be 4995! This would put The baddle at 4843'and.
The base of The Hess at 4763' approximately. Degarella and large Score hinella were bound on The very edge of The alift of The highest point of Knob C. Bothe Degerebla and Search, are The very longer forms and give a cline that these Yersils at the top of the spur on the West side of The Gullion Ranch Road really belong to Lamad #1. His is further supporteful by The Generallas found of 5226 on the west and of The Device Hills.

0478 29) September 24. Walking over some at east end Deines Rouch, to west the knot, seems remember the few on The durid is growneled. at the outnesse west end of The spannence 30' of Min beddelf clasticks ourgles 124 Scorbinella Biels al believe to be Leonard #1, this is Leonard type rock like That overlying the debrard #1 on The main moles tof The myn. Handlevelling of section between Here ledge and tedrand # 1 Yoken un frist gully west of aprice. 0-55 above Hera ledge, platy thick layers of detrital les separation les belles of yellen shale flood block the of large beechiella 55'- 116' mostly yellow shale. 116-171 The shale becomes handle and has Thick beds of do, up to 2 Thicks but separated by 10- 20' of shale. at 171' comes brokenal lo, and whateappears to be The base of Leonard # 1. Sould no Seach in This billings but big Loptodus is present. Here colored Afend in bottom of this lump are about 21/2" in diamesfer. Twestone #1 measures exactly 130' to head of gully where Thele is a small fault displaining top about 201. Bighermal lingestone

0479 Thickness, One secomany asserted of Lacehinella, suchal beyender Hintella and sporges and Dogum only one possible Scachinella. Hey must be abundant house in some slace because of The float preced with them which we saw lowenders the section of Lamard #1 may be 10-20' too Phiele on aren't of the fault. This may man account for the low pointion of the first S24 - Up sast nose of hill 4920. He lowest rock in the Hill, 20 or 30' contains biolismus and suggests Leonard #1. Arch a Lephrelus hus. Hus is overlain. by yellow shale probably mean 75 Thusle above this comes to 3+4 which consist of murth deal sandy lo. with sandsmu dans with a duttle yelfour shale between. Berriatifes are kommen in Minrock. His boin completely different forom Loverand 1 + 2, The top but of the hill is in congleneeste so. The litimine limestone in beds of a few inches to a fort or more, the fail even bedding and the abundance of formatites sole-12# 10/ me/ Leonard. 5242- tog of bonob is in egl. with shell bræncia 5245 - This is probably appear point det det det det lines fine. Some surfaces Covered by forsile Speridicular small Meekella Johnall fine lind Neospirifer.

0480 0 SZ43 actually looks like The beary beds of detrital lb just on trops of Lebrard #1. Bedo of yellfur shale dug & This and the presence of Chonosteges. Sz44 - about 100 yda east of Sz4, comes massive, lifes fine egl with luge crinoial stems. This is truly The top of Fernand # 1. Duck found Seacelinella in Mis lung about 15 below top. Only about 29 of low part of The éast most of the hill is in the massive lo #1. The ling defrital Leonard post # / above is about 30-35 Thick Then comes the sledy beds followed by bituminous, germatite-bearing Leverend. 5245 small mound lo# / with Sweets & Entrese

0481 September 25. Collected in merrine on Word # 4 bill at alborr of Hear Ceruyon NE of divide. Sevel seekin in Sill, yellow harly recte at bellown, them-Balded la witten cylinders of silicarus material, beary 715 i Wedded do. In a line, ledges, dank somethet bitiminen, line forte, Forsile not a wident. blocks, socked bornes and wagned Mileage on leaving Monathon 17020 Blecho collected 3/3=5136 3 5/8/-114p - - / 5226 2144 5 2 2 4 J14w - 5 /869 pounds. 36040 at 521 Fotal alipment 2390 pomb. Sept. 2/ Refused admission at neal Kamele. Rethined to morether and sligged